

May 21, 2020

Pamela Randolph
City of Edmonds WWTP Manager
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425.771.0237

Subject: Carbon Recovery Project

Dear Pamela,

As an engineer specializing in solids processing and recovering resources from wastewater, I have reviewed the City of Edmonds Carbon Recovery Project. I understand that the existing fluidized bed incinerator has reached the end of its service life and requires extensive and ongoing maintenance. Most replacement parts are no longer supplied by the manufacturer and require custom fabrication. These factors, along with stringent regulation and permitting requirements for sludge incineration led the Edmonds WWTP staff to seek an alternative solids processing solution. The Carbon Recovery Project was created to meet economic, infrastructure, and sustainability objectives of the Pathway to Sustainability program.

The Carbon Recovery Project has selected a thermal process to replace the aged incinerator. A sustainable pyrolysis and gasification process will produce a marketable biochar along with a concentrated mineral byproduct. This innovative solution will be more reliable than the incinerator, provide flexibility, and reduce operating and energy costs. I have reviewed the capital costs of this project and found them to be reasonable for replacing the incinerator with a sustainable biochar producing technology.

I recommend implementing the Carbon Recovery Project as currently envisioned. Implementing the project now will avoid costly repairs to keep the incinerator operational. When complete the Carbon Recovery Project will provide a sustainable solids processing solution for the Edmonds WWTP and produce a marketable biochar product.

Yours sincerely



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